

PORON® AquaPro™ Family: Formulation 37 – Supported – Data Sheet

| PROPERTY | TEST METHOD | VALUE |
|---|---|----------------------------|
| PHYSICAL | | |
| Density, kg/m ³ (lb. / ft ³) | ASTM D 3574, Test A | 304 (19) |
| Tolerance, kg/m ³ (lb. / ft ³) | | ± 32 (2) |
| Thickness, mm (in) | ASTM D 3574, Test A | 0.50 – 1.0 (0.020 – 0.039) |
| Tolerance | | ± 0.10 (.0039) |
| Compression Force Deflection, kPa (psi) | Modified ASTM D 3574: PTP-0033 at 25% deflection | 41 – 110 (6 – 16) |
| Compression Set, % max. after 24 hour recovery | ASTM D 3574 Test D @ 70°C (158°F) | 10 |
| Standard Color (Code) | | Black (04) |
| Recommended Constant Use, Max | SAE J-2236 | 90°C (194°F) |
| Recommended Intermittent Use, Max | UL 57 | 121°C (250°F) |
| OUTGASSING | | |
| Fogging | SAE J-1756 3 hrs @ 100°C (212°F) | No Fogging |
| Outgassing, Total Mass Loss (TML) % | ASTM E 595 24 hrs @ 125°C (257°F) @ <7x103 Pa | 0.58 |
| Collected Volatile Condensable Materials (CVCM) % | | 0.02 |
| Water Vapor Regain (WVR) % | | 0.09 |
| ENVIRONMENTAL | | |
| Moisture Absorption, High Humidity Exposure, % weight | AMS 3568 | 1.1 |
| Water Immersion, % | ASTM D570 | 2.84 |
| Water Absorption, Vacuum Exposure, % weight gain | ASTM D 1056 | 0.94 |
| | ASTM 3568B | 0.33 |

The data mentioned above represents results of testing the PORON polyurethane foam only. PORON cellular polyurethane material is supported by being directly cast onto 2 mil polyester film. By casting directly onto the film, a permanent bond is created. Please see physical property data for the film as represented by manufacturer below.

Supporting Material – Clear Polyester Film (PET)

| PROPERTY | TEST METHOD | VALUE |
|---|------------------|------------------|
| Coefficient of Friction A/B, (Kinetic) | ASTM D 1894 | 0.40 |
| Density, g/cm ³ | ASTM D 1505 | 1.395 |
| Modulus, MD, psi (kg/cm ²) | ASTM D 882 | 500,000 (35,200) |
| Shrinkage, MD, %, (TD) | 39 min. at 150°C | 1.2 (0.0) |
| Tensile Strength, MD, psi (kg/cm ²) | ASTM D 882 | 30,000 (2,110) |
| Ultimate Elongation | ASTM D 882 | 150 |
| Yield Strength (F5), psi (kg/cm ²) | ASTM D 882 | 15,000 (1,050) |

Notes:

- All metric conversions are approximate.
- Additional technical information is available.
- Values should not be used for specification limit

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